DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY

Revised Fall 2022 6 Semesters

ELECTRICAL SYSTEMS TECHNOLOGY Associate Degree (A35130)

Catalog/Academic Year 2023-2024

Key to symbols after some courses:

* Developmental courses (ENG 002 and/or MAT 003) may be required based on college placement and course requisites.

**Requires prior approval by Work Based Learning Coordinator.

GE Fulfills the general education requirements for this degree.

FALL SEMESTER 2023

	Hours	Hours	Hours	Hours		
Course	Class	Lab	Work	Credit	Program Remarks	Notes
ACA 122 College Transfer Success	0	2	0	1		
ELC 112 DC/AC Electricity	3	6	0	5		
ELC 113 Residential Wiring	2	6	0	4		
ENG 111 Writing and Inquiry* ^{GE}	3	0	0	3		
MAT 121 Algebra/Trigonometry I* ^{GE}	2	2	0	3		

SPRING SEMESTER 2024

	Hours	Hours	Hours	Hours		
Course	Class	Lab	Work	Credit	Program Remarks	Notes
COM 231 Public Speaking*GE	3	0	0	3		
ELC 115 Industrial Wiring	2	6	0	4		
ELC 117 Motors and Controls	2	6	0	4		
ELC 118 National Electrical Code	1	2	0	2		

SUMMER TERM 2024

	Hours	Hours	Hours	Hours		
Course	Class	Lab	Work	Credit	Program Remarks	Notes
CIS 110 Introduction to Computers	2	2	0	3		
ELC 128 Intro to PLC	2	3	0	3		
Concentration Elective I (Mechatronics Track)	2	3	0	3		

FALL SEMESTER 2024

	Hours	Hours	Hours	Hours		
Course	Class	Lab	Work	Credit	Program Remarks	Notes
BPR 111 Print Reading	1	2	0	2		
ELC 228 PLC Applications	2	6	0	4		
MNT 110 Intro to Maintenance Procedures	1	3	0	2		
Concentration Elective I (Electrical Track)	3	3	0	4		

SPRING SEMESTER 2025

	Hours	Hours	Hours	Hours		
Course	Class	Lab	Work	Credit	Program Remarks	Notes
ELC 213 Instrumentation	3	2	0	4		
PHY 110 Conceptual Physics	3	0	0	3		
PHY 110A Conceptual Physics Lab	0	2	0	1		
SOC 210 Introduction to Sociology ^{*GE}	3	0	0	3		
WBL 110 World of Work** AND WBL 111 Work-Based Learning I** OR ISC 112 Industrial Safety	1-2	0	0-10	2	Online (WBL 110)	

SUMMER TERM 2025

	Hours	Hours	Hours	Hours		
Course	Class	Lab	Work	Credit	Program Remarks	Notes
ELC 215 Electrical Maintenance	2	3	0	3		
HUM 115 Critical Thinking*GE	3	0	0	3		
Concentration Elective II (Mechatronics	2	3	0	3		
Track)						

MINIMUM SEMESTER HOURS REQUIRED FOR AAS DEGREE 66

Concentration Electives – Students will choose **one** concentration (Electrical or Mechatronics) and complete all electives listed in that track

Electrical Track

Concentration Elective I – ELN 133 Digital Electronics (3-3-4) Concentration Elective II – None

Mechatronics Track

Concentration Elective I – HYD 110 Hydraulics/Pneumatics I (2-3-3) Concentration Elective II – ATR 218 Work Cell Integration (2-3-3)

For additional information about requirements and graduation, please refer to the <u>Curriculum Program Completion</u> <u>and Graduation</u> policy. Program-specific criteria may be found on the respective <u>Programs</u> page. For questions about this program, consult the Program Director or an advisor for assistance.